Faculty

- **Mark Campbell**, PhD (Iowa State University)
  Teaching Areas: Soils; Plant Science; Forage Crops
  Research Interests: Utilizing genetic diversity in maize to improve starches for food and industrial application.
  campbellf@truman.edu

- **Emily Costello**, BS (Truman State University)
  Teaching Areas: Horsemanship; Horse Training IHSU
  Equestrian Team coach; Mentor to students working with horses on basic and advanced training techniques.
  ecostello@truman.edu

- **Susan Guffey**, DVM (University of Illinois)
  Teaching Areas: Anatomy and Physiology; Comparative Anatomy; Animal Health
  sguffey@truman.edu

- **Bill Kunzt**, BS (Truman State University)
  Teaching Areas: Agronomic Techniques
  Serves as Farm Manager, overseeing all farm operations and student workers at the Farm.
  bkunzt@truman.edu

- **Steven Salt**, PhD (University of Minnesota)
  Teaching Areas: Teaches courses in Horticulture, Vegetable and Fruit Production, Plant Nutrition, and Soil Conservation, in addition to operating a diversified vegetable farm.
  saltsgvf@wildblue.net

- **Michael Seipel**, PhD (University of Missouri)
  Teaching Areas: Marketing; Ag. Policy; Sustainable Agriculture
  Research Interests: Impacts of agricultural change on human communities.
  mseipel@truman.edu

- **Glenn Wichner**, PhD (University of Tennessee)
  Teaching Areas: Beef Production, Nutrition, Meat Science
  Research Interests: Energy and mineral nutrition of grazing cow/calf pairs and its impact on milk production and conception rates; visual udder scoring of beef cows to predict milk production.
  gwichner@truman.edu

- **Kelly Wimso**, MS (Texas A&M University)
  Teaching Areas: Equine Science; Animal Reproduction
  Research Interests: Effect of maternal nutrition on mare and foal performance; nutritional requirements of young horses and impact of nutrition on growth.
  kwimso@truman.edu

Students

- **Student Organizations**
  Agricultural Science students are active members and leaders in a broad spectrum of campus and community organizations and activities. Organizations based in Agricultural Science include:
  - Cattle Show Team
  - Collegiate Farm Bureau
  - Delta Tau Alpha National Honorary
  - Equestrian Team
  - Pre-Veterinary Club
  - Sigma Alpha Professional Sorority

- **Internships**
  An internship experience can enrich a student’s education. Up to five credit hours can apply directly to major requirements. Recent sites include:
  - Farm to School Program, Truman University Farm
  - Saint Louis Zoo; Omaha Zoo
  - Grant’s Farm
  - Monsanto
  - USDA Meat Animal Research Center (NE)
  - North Carolina State University for Environmental Farming Systems

- **Study Abroad**
  The flexible structure of the AGSC major makes it possible for students to pursue study abroad opportunities and apply hours earned toward their degree. Recently, students have studied in:
  - Australia
  - Costa Rica
  - Germany
  - Ireland (University of Limerick)
  - New Zealand (Christchurch)
  - South Africa

Careers

Approximately two-thirds of graduates go directly into the work force, with these and many other employers:
- USDA-Natural Resources Conservation Service (NRCS)
- Monsanto
- Land O’Lakes Animal Nutrition
- Growmark
- Grant’s Farm
- Tyson/IBP
- Peace Corps

Graduate & Professional Schools

Approximately one-third of students attend graduate or professional schools following graduation.

Over the past twelve years, Truman’s Agricultural Science graduates have averaged a 51% acceptance rate to University of Missouri’s Veterinary Medicine school, compared to a 39% rate for other applicants.

In recent years, Truman agriculture students have attended these graduate/professional schools:
- Vet Schools-Missouri, Iowa St., Illinois, Nebraska,
- University of Wyoming (Animal Science)
- University of Wisconsin-Madison (Nutrition)
- University of Nebraska (Turf Management)
- Iowa State University (Wetland Ecology; Genetics)
- North Carolina State University (Plant Pathology)
- Oregon State University (Weed Science)
- Michigan State University (Ag Economics)
- Western Illinois University (Ag Education)

Facilities & Technology

- **Farm & Facilities**
  Activities at the University Farm and Magruder Hall science facility, ranging from class work to research to recreation, are a critical component of student learning.
  The 400-acre farm is located just 1.5 miles from campus and features:
  - Classroom/lab, equine, and cattle facilities
  - 40-head riding/breeding horse herd
  - Indoor and outdoor riding arenas
  - A herd of Gelbvieh beef cattle
  - Two greenhouses, an orchard, vineyards, and garden plots
  - Agronomy research plots and crops
  - Beautiful, rolling grassland and woodland areas
  - Horse boarding available by contract

- **Research**
  Students have numerous opportunities to undertake mentored research with a faculty member and can apply for funding to pursue independent projects. Recent agricultural research projects include:
  - Determination of Dominance Hierarchy and the Influence of Preferred Association in Horses
  - Development of a Prediction Equation for Total Body Mass Across Three Sizes of Equids (Equus caballus)
  - Levels of Aggression and Social Hierarchies in the Quarter Horse
  - Factors Affecting Agriculture Literacy
  - Techniques for Effective Extraction of High Amylose Starch
  - Evaluation of Marker-Assisted Backcross Selection for Development of High Amylose Corn
  - Effects of Abrupt vs. Gradual Weaning on Lamb Performance and Ewe Udder Health
  - Effects of Finishing Lambs on Standing Grains Paste versus Finishing Lambs in a Feedlot
  - Comparison of Rumen Fermentation of Corn Starch Varying in Amylose and Amylopectin Concentration
  - Efficacy of Heat Detection in Cattle as Determined by Heat Detector Placement
  - Efficacy of Subjective Visual Udder Scores in Beef Cows for the Prediction of Weaning Weight of Calves
  - Association of Parturition Intake with Milk Production in Grazing Gelbvieh Cow- Calf Pairs
  - Additives for Lowering Cold Flow in Biodiesel
  - Use of Glycerol from Biodiesel Production as a Supplemental Cattle Feed
  - Yield in Commercial Tomato Plots Mulched with Painted Polyethylene or Straw Mulch

http://agriculture.truman.edu